

### **ABSTRACT**

The optical communication multiplex device for a vehicle comprises optical communication lines connecting a transmitting terminal (Tx) to a receiving terminal (Rx). Contact resistances are disposed near the optical communication line to generate heat for changing the length of the optical communication lines. A power terminal and a ground terminal are respectively connected to one end and the other end of the contact resistances to thereby supply power to the contact resistances. A control terminal outputs a control signal for changing the length of the optical communication lines via the contact resistances supplied with power from the power terminal. A transistor connected between the control terminal and the contact resistances carries out a switching operation of power applied to the contact resistances from the power terminal in response to the control signal inputted from the control terminal.